



# Luis Angel Guerrero Hoyos

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## About Me

I am a Sc.M student in the CEE Department at the University of Washington. I hold a Sc.B degree in Geological Engineering from the Universidad Nacional de Colombia, with 5+ years of industry experience. Passionate about geospatial data, GIS, and remote sensing, I excel in both autonomous and team-based learning environments. With outstanding interpersonal, written, and communication skills, I am adaptable to change and committed to continuous improvement. My creative and innovative mindset is focused on problem-solving, particularly within the realms of geospatial analysis, data engineering, geophysics, geotechnical engineering, and risk management.

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## Experience

### University of Washington

#### Research Assistant and Scientist

*August 2023 - Present*

- Investigating the geospatial relationships between earthquake-induced landslides and their reactivations.
- Interaction with geospatial data types, both rasters (GeoTIFF and satellite imagery) and vectors (GeoJSON, geopackage shapefiles).

### Hexagon Geospatial

#### Geotechnical Monitoring Analyst

*July 2021 - August 2023*

- InSAR data analysis and management from ground-based georadars.
- Real time geotechnical monitoring of pit slopes and tailing dams using ground-based interferometric radars, robotic total stations and GNSS.
- Technical support to the customer regarding monitoring, equipment, system, and software.
- Daily, weekly, and monthly report instable areas to the customer after the analysis for decision-making.

### South32

#### Geological Engineer

*January 2019 - July 2021*

- Management of GIS databases of drilling samples.
- Drilling samples data entry.
- Plan, execute and supervise drilling campaigns.

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## Education

### **Master of Science in Civil Engineering**

University of Washington

*May 2025*

### **Bachelor of Science in Geological Engineering**

Universidad Nacional de Colombia

*May 2019*

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## Skills

- **Programming Languages:** Python, Matlab
  - **Frameworks & Libraries:** Geopandas, Rasterio, Xarray, Gdal
  - **Tools:** Git, QGIS, ArcGIS, InSAR, Pix4D, CloudCompare,
  - **Databases:** SQL, PowerBI
  - **Soft Skills:** Communication, Leadership, Adaptability, Innovation
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## Certifications

- InSAR and RAR Radar Monitoring - University of Arizona, December 2020

## Languages

- English (Fluent)
- Spanish (Native)